

vaunix

DC – 40 GHz · USB-CONTROLLED · LAB BRICK · TEST EQUIPMENT · PORTABLE

Vaunix Technology Corp. designs portable, programmable RF test instruments — the Lab Brick® family. USB-powered and USB-controlled, compact and ready-to-deploy. Perfect for laboratory, field, and automated test environments up to 40 GHz.



Product Portfolio

Digital Attenuators

DC – 40 GHz

USB-programmable attenuators. 0–120 dB range, 0.1 dB resolution. Single-channel to 8-channel configurations.

Signal Generators

500 MHz – 40 GHz

USB-programmable RF sources. Single and dual-channel models available.

RF Switches

DC – 20 GHz

Digital RF switching matrices. SP2T through SP8T topologies.

Phase Shifters

UP TO 12 GHz

Digital phase shifters with 0.1° resolution. 8-channel units available for beam-steering applications.

Matrix Attenuators

UP TO 8 GHz

Multi-channel attenuation matrices for handover testing. 64–512 channel configurations.

Butler Matrices

2.4 – 7.25 GHz

4×4 beamforming matrices for antenna array testing and phased-array validation.

Strengths at a glance

Lab Brick Concept

Compact USB-powered instruments connecting directly to your laptop or PC — no rack, no bench space required.

USB-Controlled

Fully digital control via USB — no external power supply, no GPIB, no complex rack infrastructure.

Plug-and-Play

Connect and start testing — drivers for Windows and Linux, libraries for Python, MATLAB, and LabVIEW included.

Programmable

Full programmatic control for automated test benches and sequenced measurement routines — ideal for ATE integration.

Wide Portfolio

Attenuators, signal sources, phase shifters, frequency converters, switches — all in the same USB form factor.

Reliable

Manufactured in the USA, long-established as the industry standard for USB lab equipment in research and production.

Industries & Use Cases

Test & Measurement

Automated measurement setups, characterisation of RF components and circuits in research labs.

5G / Mobile Test

Level control, phase steering, and signal routing in 5G NR test beds and FR1/FR2 validation rigs.

Research & Development

Rapid lab setups at universities and corporate R&D teams — compact and instantly deployable.

ATE Systems

Integration into automated test equipment for production lines and quality assurance.

Software-Defined Radio

Controllable RF signal conditioning in SDR platforms and experimental wireless systems.

Production Test

End-of-line testing in RF component manufacturing — cost-effective, compact, easy to deploy.



Available through bq-microwave

bq-microwave is the authorized European distributor for Vaunix. Fast procurement, short lead times and personal technical consultation.

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